

## 15 Watts DIP Type Wide Input DC - DC Converters

### FEATURES

- ◆ 15W Isolated Output / 4:1 Input Range
- ◆ High Efficiency UP To 82%
- ◆ Remote On/off Control
- ◆ Six-Sided Shield

### SPECIFICATIONS

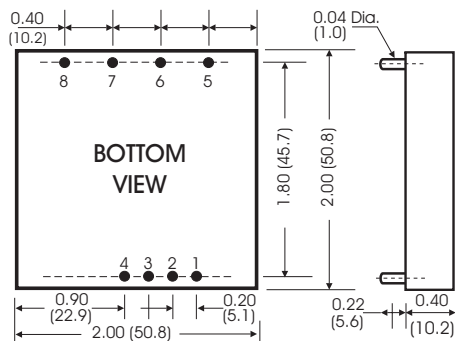
Input Voltage Range.....24V (Range 9-36V) / 48V (Range 18-72V)  
 Input Filter..... Pi Type  
 Voltage Accuracy.....Single Output:  $\pm 1\%$  max.  
 Dual +Output: 1% max. / Dual -Output:  $\pm 3\%$  max.  
 Triple, 5V: 2% max. / Triple, 12V/15V:  $\pm 3\%$  max.  
 Voltage Balance(Dual)..... $\pm 1\%$  max.  
 Transient Response.....Single, 25% Step Load Change <500u sec.  
 Dual, FL-1/2L  $\pm 1\%$  Error Band <500u sec.  
 External Trim Adj. Range..... $\pm 10\%$   
 Ripple & Noise(20MHz BW).....75mVp-p max.  
 Short Circuit Protection.....Continuous  
 Line Regulation.....Single/Dual (HL-LL)..... $\pm 0.2\%$ max.  
 Triple(HL-LL)..... $\pm 1\%$  max.  
 Load Regulation.....Single/Dual (FL-25%FL)..... $\pm 1\%$  max.  
 Triple (FL-25%FL)..... $\pm 5\%$  max.  
 Switching Frequency.....300KHz, min.  
 Isolation Voltage.....500VDC min.  
 Storage Temperature Range.....-55°C to +105°C  
 Operating Temperature Range.....-25°C to +71°C  
 Case Grounding..... Capacity coupled to input  
 Case ..... Black Coated Copper With Non-Conductive Base  
 EMI/RFI..... Six-Sided Continuous Shield

All Specifications are Typical at Nominal Line, full Load and 25°C. Unless Otherwise Noted.

Model Number	Input Voltage (VDC)	Output Voltage (VDC)	Output Current (mA)	Input Current (mA)		EFF. %
				NoLoad	FullLoad	
<b>Single Output Models</b>						
EA15-40	9-36	3.3	3000	15	545	76
EA15-41	9-36	5	3000	15	810	77
EA15-42	9-36	12	1250	15	780	80
EA15-43	9-36	15	1000	15	780	80
EA15-50	18-72	3.3	3000	10	270	76
EA15-51	18-72	5	3000	10	410	77
EA15-52	18-72	12	1250	10	390	80
EA15-53	18-72	15	1000	10	390	80
<b>Dual Output Models</b>						
EA15-44	9-36	$\pm 5$	$\pm 1500$	20	810	77
EA15-45	9-36	$\pm 12$	$\pm 625$	20	780	80
EA15-46	9-36	$\pm 15$	$\pm 500$	20	780	80
EA15-54	18-72	$\pm 5$	$\pm 1500$	15	400	79
EA15-55	18-72	$\pm 12$	$\pm 625$	15	380	82
EA15-56	18-72	$\pm 15$	$\pm 500$	15	380	82
<b>Triple Output Models</b>						
EA15-47	9-36	5 / $\pm 12$	1500/ $\pm 310$	20	780	80
EA15-48	9-36	5 / $\pm 15$	1500/ $\pm 250$	20	780	80
EA15-57	18-72	5 / $\pm 12$	1500/ $\pm 310$	15	380	82
EA15-58	18-72	5 / $\pm 15$	1500/ $\pm 250$	15	380	82

DC/DC Converter

### MECHANICAL DRAWING (Unit: inch(mm))



Remote On/Off Control	
Logic Compatibility	CMOS or Open Collector TTL
EC-On	> +5.5VDC or Open Circuit
EC-Off	< 1.8VDC
Shutdown Idle Current	10mA
Input Resistance	100K ohms(Ein 0VDC to 9VDC)
Control Common	Referenced to Input Minus

**NOTE:**

1. Maximum total power from all outputs is limited to 15watts but no output should be allowed to exceed its maximum current.
2. Minimum current on each output is required to maintain specified regulation.

Pin#	Pin Connections		
	Single	Dual	Triple
1	Remote On/Off Control		
2	N.P.	N.P.	N.P.
3	-Vi	-Vi	-Vi
4	+Vi	+Vi	+Vi
5	Trim	Trim	-Aux.Out
6	-Vo	-Vo	Com.
7	+Vo	Com.	+5V.Out
8	N.P.	+Vo	+Aux.Out

Triple Output LoadingTable(1)			
Output (Pin No.)	Voltage	Amperes	
		Min.(2)	Norm.
7	+5	0.25	1.5
8&5	+12 & -12	0.10	0.31
8&5	+15 & -15	0.10	0.25

